LXIX. *A* Catalogue *of the* Fifty Plants *from* Chelſea-Garden, *preſented to the* Royal Society *by the worſhipful Company of* Apothecaries, *for the Year* 1753. *purſuant to the Direction of Sir* Hans Sloane, *Bart. Med. Reg. & Soc. Reg. nuper Præſ.*; *by* John Wilmer, *M. D. Clariſſ. Societatis Pharmaceut. Lond. Soc. Hort.* Chelſ. *Præf. & Prælect. Botan.*

Read March 7, 1754.

1551. ANagallis cærulea foliis binis terniſve ex adverſo naſcentibus *C. B.*

1552. Arctotis foliis ovatis dentatis petiolis longiſſimis ſuperne dentatis caule ramoſo *Flor. Leyd. Prod.* Anemonoſpermos Africana foliis Plantaginis flore ſulphureo *Com. rar. Pl. fig.* 35.

1553. Aſtragalus cauleſcens procumbens leguminibus ſcrotiformibus inflatis mucronatis piloſis *Hort. Upſal.*

1554. Atriplex ſylveſtris fructu roſeo compreſſo vel ſtellato *C. B. P.*

1555. Baccharis foliis lanceolatis longitudinaliter dentato ſerratis *Hort. Cliff.* Senecio Afric. arboreſcens folio ſerrato *Boerh.* 117.

1556. Calendula foliis linearibus denticulatis & integerrimis *Flor. Leyd.* Dimorphotheca ſtatices folio *Vaillant.*

1557.

1557. Carduus Luſitanicus luteus foliis coronopi glabris & rigidis *Tourn. Inſt. R. H.*

1558. Celtis fructu obſcure purpuraſcente *Inſt. R. H.* 612.

1559. Centaurea calycibus duplicato-ſpinoſis ſubrotundis, foliis decurrentibus, lanceolatis ſinuoſis inermibus floribus lateralibus *Hort. Cliff.*

1560. Centaurea calycibus ſubulato-ſpinoſis foliis decurrentibus, inermibus lanceolatis inferioribus dentatis *H. Cliff.*

1561. Centaurea calycibus ciliatis, foliis tomentoſis pinnatifidis, foliolis ovatis integerrimis exterioribus majoribus *Hort. Cliff.* Jacea Epidaurica candidiſſima & tomentoſa *Tourn.* 445.

1562. Cerinthe Alpina perennis flore ſtriato *Tourn. Inſt. R. H.* Glaſtum montanum *Dalechampii Lugd.* 1204.

1563. Clinopodium montanum *C. B. P.* Acinos Auſtriaca *Cluſii.*

1564. Cynanchum caule volubili, fol. reniformibus cordatis acutis *Hort. Cliff.* Periploca Monſpeliaca folio rotundiore *Tourn.* 93.

1565. Delphinium nectariis diphyllis labellis bifidis apice barbatis, foliis inciſis, caule erecto *H. Upſal.* Delphinium Orientale, Aconiti fol. fl. cærul *T. Cor.* 30.

1566. Dioſma foliis ſubulatis acutis *Hort. Cliff.* Spiræa Africana foliis cruciatim poſitis *Com. rar. pl.*

1567. Echinopus minor *J. B.* 3. 72.

1568. Elichryſum ſylveſtre latifolium, fl. parvo ſingulari ſtœchadi citrini alteri inodore Lobelii *Tourn. Inſt. R. H.* Affinis capitulis brevioribus *J. B.* 3. 157.

1569. Epilobium foliis lineari-lanceolatis integerrimis, floribus corymboſis terminatricibus.

1570. Eryngium Americanum fœtidum Ituba Braſil. *Hort. Leyd.* 237.

1571. Galenia *Hort. Cliff.* Sherardia *Pontider.*

1572. Geniſta tinctoria latifolia Lucenſis *J. B.*

1573. Heſperis ſicula fruteſcens ſiliqua tricuſpidi *Tourn.* Leucoium minus fruticans purpureum, montanum crucigerum *Boc.* p. 2. 148. *T.* 3.

1574. Hieracium incanum lanuginoſum Raguſinum, piloſellæ flore *Hort. Lugd. App.*

1575. Hippocrepis leguminibus ſolitariis ſubſeſſilibus *Hort. Cliff.* Ferrum equinum ſiliqua ſingulari *Tourn.* 400.

1576. Hyoſeris foliis glabris haſtato-pinnatis *Flor. Leyd. Prod.* Dens leonis minor foliis radiatis *C. B. P.*

1577. Kempferia *Hort. Cliff.* Aroorchis tuberoſo platyphyllos *Breyn.*

1578. Leonuros Canadenſis origani folio *Tourn. Inſt. R. H.* 187. Origanum fiſtuloſum Canadenſe *Cornuti.* Monarda *Hort. Cliff.*

1579. Malope foliis ovatis crenatis glabris *Hort. Cliff.* Malacoides betonicæ folio *Tourn. Inſt.* 98.

1580. Marrubiaſtrum vulgare *Tourn.* Sideritis alſines triſſaginis fol *C. B. P.* 233.

1581.

1581. Mercurialis caule fruticoſo, foliis tomentoſis *Hort. Cliff.*

1582. Nerium Indicum anguſtifolium, floribus odoratis ſimplicibus *Hort. Leyd.*

1583. Othonna foliis infimis lanceolatis integerrimis, ſuperioribus ſinuato-dentatis *Hort. Cliff.* Jacobæa Africana fruteſcens coronopi folio *Com. Hort. Amſt.* p. 2. 139.

1584. Papaver caule unifloro nudo hiſpido, foliis pinnato-ſinuatis *Hort. Upſ.*

1585. Perſicaria fruteſcens maculoſa Virginiana flore albo *Park. Theat.* 857.

1586. Phyſalis radice perenne foliis cordatis obtuſis *H. Cliff.* Alkekengi Bonarienſe repens bacca turbinata viſcoſa *Hort. Eltham.* p. 11.

1587. Plumbago foliis petiolatis *Hort. Cliff.* Ceylanenſis fol. ſplendente Ocymaſtri fl. lacteo Burman *Zeyl.* 195.

1588. Salvia foliis ovatis utrimque acuminatis ſerratis *H. Cliff.* Sclarea Mexicana altiſſima facie Heliotropii *Hort. Elt.* 339.

1589. Sanicula Offic *C. B. P.* 319. Mas Fuchſii ſive Diapenſia *J. B.* 3. 639.

1590. Saxifraga Alpina Ericoides flore cæruleo *Tourn. Inſt. R. H.* Sedum Alpinum Ericoides cæruleum *C. B. Prod.* 132.

1591. Scabioſa corollulis quinquefidis foliis inciſis, caule fruteſcente *Hort. Cliff.* Scabioſa Africana fruteſcens *Herman. Par.* 219.

1592. Seſeli petiolis ramiferis membranaceis oblongis integris *Hort. Cliff.* Fæniculum ſylveſtre elatius Ferulæ, fol. longiori *Tourn.* 311.

1593. Solanum Campechianum calycibus echinatis *H. Elt.* 360.

1594. Soldanella *Hort. Cliff.* Alpina rotundifolia *C. B. P.* 295.

1595. Sonchus floribus ſolitariis, foliorum laciniis extrorſum flexis *Hort. Cliff.* Sonchus Tingitanus papaveris folio *T.* 475.

1596. Teucrium foliis lanceolatis integerrimis petiolatis, ſpicis laxis ſubrotundis *Hort. Cliff.* Polium lavendulæ folio *C. B. P.* 220.

1597. Thevetia *Hort. Cliff.* Ahovas major *Piſ.*

1598. Tordylium umbellulis remotis, foliis pinnatis pinnis ſubrotundis laciniatis *Hort. Cliff.*

1599. Veronica ſpicata lanuginoſa & incana floribus cæruleis *Amman. Ruth.*

1600. Zigophyllum foliis ſubſeſſilibus *Hort. Cliff.* Fabago Africana arboreſcens flore ſulphureo, fructu rotundo *Com. Rar.* 10.

LXX. *An Account of ſome Experiments upon a Machine for meaſuring the Way of a Ship at Sea.* By *Mr.* J. Smeaton, *F. R. S.*

Read April 4, 1754.

IN the *Philoſophical Tranſactions*, N° 391. for November 1725. Mr. Henry de Saumarez gives an account of a machine for meaſuring a ſhip's way more exactly than by the log. This machine conſiſts of a firſt mover, in the form of the letter Y. Upon the two arms of the Y are faſtened two vanes, inclined in ſuch a manner, that when the